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CITRUS

SPECIAL GRAPEFRUIT UPDATE

NOVEMBER FORECAST
 MATURITY TEST RESULTS AND FRUIT SIZE

November 10, 1999

ORANGES 211.0 MILLION BOXES

The October 1 orange forecasts for all states are repeated in this report since no November forecasts are made. The Florida all orange forecast is 14 percent more than the 185.7 million boxes recorded last season. During the past 10 seasons, the October forecast has deviated from final recorded utilization by an average of 3.1 percent; four of the seasons averaged 4.7 percent above and the remaining six averaged 2.1 percent below the final estimates of utilization.

FCOJ YIELD 1.60 GALLONS PER BOX

Since there are no November forecasts or projections, the forecast for FCOJ remains at 1.60 gallons per box at 42.0 degrees Brix equivalent. Maturity test results on fruit collected October 25 and 26 are presented on page 3. All averages are unadjusted as in prior seasons and provide a measure of changes occurring in fruit still on the trees. The tests do not reflect the same levels of maturity as those being reported by processors from plant tests or plant recovery rates because the latter relate to fruit that has been harvested.

The final 1998-99 all orange season average FCOJ yield as reported by the Florida Citrus Processors Association was 1.63 gallons per box. The next FCOJ projection will be released with the box forecasts on December 10.

Citrus production, October 1, 1999
 forecasts by varieties and states, with comparisons

Crop and State	Production			Forecast
	1996-97	1997-98	1998-99	1999-00
- - - 1,000 boxes - - -				
Early, Midseason, and Navel Oranges:				
FLORIDA	134,200	140,000	112,000	124,000
California	40,000	44,000	21,000	40,000
Texas	1,300	1,350	1,250	1,300
Arizona	550	350	550	400
Total Above Varieties	176,050	185,700	134,800	165,700
Valencias:				
FLORIDA	92,000	104,000	73,700	87,000
California	24,000	25,000	17,000	27,000
Texas	120	175	180	300
Arizona	850	650	600	500
Total Valencias	116,970	129,825	91,480	114,800
All Oranges:				
FLORIDA	226,200	244,000	185,700	211,000
California	64,000	69,000	38,000	67,000
Texas	1,420	1,525	1,430	1,600
Arizona	1,400	1,000	1,150	900
Total All Oranges	293,020	315,525	226,280	280,500

FORECAST DATES 1999-00 SEASON

- December 10, 1999
- January 11, 2000
- February 11, 2000
- March 10, 2000
- April 11, 2000
- May 12, 2000
- June 9, 2000
- July 12, 2000

GRAPEFRUIT NOW 46.0 MILLION BOXES

The all grapefruit forecast is decreased 4.0 million boxes (eight percent) from October to 46.0 million boxes. White seedless grapefruit is now forecast at 18.5 million boxes, down 2.0 million from October. Colored seedless varieties are also down 2.0 million to 27.0 million boxes.

The reduction is a result of fruit blown off the trees and a slightly increased droppage rate for fruit remaining on the trees. Most of the reduction is in the Indian River area where Hurricane Irene passed on October 15 and 16. Some fruit was also lost in the lower interior counties of Hendry and Collier, but harvest was more advanced in that area and winds not as high. No other areas were affected. Although the loss from the winds is of the larger more mature fruit, some increased sizing is expected on fruit remaining on the trees.

Additional loss may occur in coming months from increased droppage because of high water levels in some groves and increased incidence of disease because of the excessive water.

With this reduction, this season's forecast of all grapefruit is about 1 million boxes less than last season's 47.05 million boxes utilized. White seedless is up 700,000 boxes from last season and colored varieties down 1.7 million boxes. Seedy utilization at 500,000 boxes is near the same as last season.

**FLORIDA CITRUS: Distribution of 1998-99 production and 1999-00
forecast by marketing districts and fruit types**

Fruit type	Indian River		Gulf		Florida Sun Ridge		State total	
	1998-99	1999-00	1998-99	1999-00	1998-99	1999-00	1998-99	1999-00
ORANGES:	- - - 1,000 boxes - - -							
Early & Midseason (Including Navels)	9,500	10,200	22,600	24,900	79,900	88,900	112,000	124,000
Valencia	7,600	12,400	19,400	21,800	46,700	52,800	73,700	87,000
All	17,100	22,600	42,000	46,700	126,600	141,700	185,700	211,000
GRAPEFRUIT:								
White Seedless	12,700	13,500	1,400	1,300	3,700	3,700	17,800	18,500
Colored Seedless	18,800	17,700	5,300	4,800	4,600	4,500	28,700	27,000
Other (Seedy)	50	50	--	--	500	450	550	500
All	31,550	31,250	6,700	6,100	8,800	8,650	47,050	46,000

Citrus production, November 1, 1999
forecasts by varieties and states, with comparisons

Crop and State	Production		Forecast	
	1997-98 ^{1/}	1998-99	Oct 8 '99	Nov 10 '99
- - - 1,000 boxes - - -				
Grapefruit:				
FLORIDA-All	49,550	47,050	50,000	46,000
Seedless	48,900	46,500	49,500	45,500
White	18,300	17,800	20,500	18,500
Colored	30,600	28,700	29,000	27,000
Seedy (Other)	650	550	500	500
Texas	4,800	6,100	5,500	5,500
Arizona	800	750	650	650
California	8,000	7,500	8,000	8,000
Total Grapefruit	63,150	61,400	64,150	60,150
Lemons:				
California	21,000	16,200	20,500	20,500
Arizona	2,600	3,450	3,900	3,900
Total Lemons	23,600	19,650	24,400	24,400
Limes: Florida	440	500	600	600
Temples: Florida	2,250	1,800	2,100	2,100
Tangelos: Florida	2,850	2,550	2,600	2,600
K-Early: Florida	40	80	70	70
Tangerines:				
FLORIDA-All	5,200	4,950	6,400	6,400
Early ^{2/}	3,200	3,050	4,200	4,200
Honey	2,000	1,900	2,200	2,200
California ^{3/}	2,400	1,500	2,300	2,300
Arizona ^{3/}	600	950	700	700
Total Tangerines	8,200	7,400	9,400	9,400

^{1/} Excludes 6 million boxes of economic abandonment in Fl: 5 million white seedless and 1 million colored. ^{2/} Robinson, Fallglo, Sunburst, and Dancy. ^{3/} Includes tangelos.

**ESTIMATE OF PRODUCTION
BY MARKETING DISTRICTS**

The production forecasts made in October for Florida oranges and updated for grapefruit have been divided between marketing districts for this report. These are shown in the table above with the 1998-99 production for comparison.

MATURITY AND WEATHER

The maturity test results reported on page 3 are from fruit collected October 25-26 and tested October 27-29. These samples were collected from the same trees as the September and October surveys and reflect maturity levels for unharvested fruit.

The next maturity tests and FCOJ yield projection will be released with the crop forecast December 10th at 8:30 a.m.

Weather during October was very wet in all citrus producing areas of Florida. The first week of October a tropical depression dumped several inches of rain on most citrus counties. Hurricane Irene moved through the lower interior and east coast citrus areas on October 15 and 16 leaving many groves with excessive moisture conditions. Growers started pumping water out of the groves immediately. Brown rot is reported affecting some early oranges, causing drop of mature fruit.

Loss of fruit was greatest on grapefruit in the windy areas. Valencia oranges and specialty types did not lose as much due to their smaller size and general immature status. Maturity levels are behind last year as they have been all of this season. The Brix and pounds of juice are lagging on all types of oranges which combine to give a lower pounds solids per box.

Unadjusted Maturity Tests: Average of regular bloom fruit from sample
groves, 1998-99 and 1999-00 seasons

Fruit type (No. groves) test date	Acid		Solids (Brix)		Ratio		Unfinished juice per box		Solids per box	
	1998-99	1999-00	1998-99	1999-00	1998-99	1999-00	1998-99	1999-00	1998-99	1999-00
	Percent		Percent				Pounds		Pounds	

Juice and solids per box are unadjusted and not comparable to plant test results.

ORANGES:

Early (118-118)

Sep 1	1.73	1.73	9.53	9.35	5.66	5.52	42.10	41.03	4.01	3.82
Oct 1	1.15	1.20	9.37	9.36	8.29	7.94	47.90	46.41	4.48	4.34
Nov 1	0.90	0.94	10.15	9.69	11.49	10.53	51.07	49.98	5.18	4.84

Mid (54-54)

Sep 1	1.94	1.99	9.42	9.13	4.98	4.68	42.53	39.46	4.01	3.60
Oct 1	1.30	1.41	9.14	9.10	7.18	6.55	48.30	46.88	4.42	4.27
Nov 1	1.06	1.10	10.01	9.54	9.58	8.55	52.92	51.06	5.30	4.88

Late (150-150)

Sep 1	NA	NA	NA	NA						
Oct 1	2.44	2.51	8.65	8.55	3.60	3.45	45.68	43.36	3.95	3.71
Nov 1	2.02	2.06	8.98	8.72	4.51	4.30	50.66	47.53	4.55	4.15

GRAPEFRUIT:

Seedless

White (47-49)

Sep 1	1.81	1.84	10.10	10.28	5.58	5.61	30.66	29.07	3.09	2.98
Oct 1	1.56	1.62	9.77	9.81	6.32	6.11	35.94	34.56	3.51	3.38
Nov 1	1.48	1.44	10.10	9.59	6.87	6.71	38.66	38.04	3.90	3.65

Colored (44-46)

Sep 1	1.79	1.76	9.97	10.12	5.60	5.77	31.48	28.64	3.14	2.90
Oct 1	1.49	1.55	9.64	9.75	6.51	6.34	34.99	35.28	3.37	3.44
Nov 1	1.37	1.38	9.99	9.67	7.32	7.05	40.18	38.08	4.01	3.68

NOTICE: All samples were run through an FMC 091 machine using mechanical pressure only. This machine utilizes a .040 short strainer and standard 5/8-inch orifice tube. The beam settings are also identical to past tests and no restrictors are used.

Maturity test averages by areas, November 1, 1999

Fruit type	Groves sampled	Acid	Solids (Brix)	Ratio	Unfinished juice per box	Solids per box
	Number	Percent	Percent		Pounds	Pounds
ORANGES:						
Early						
Indian River Dist.	11	0.94	9.92	10.67	48.59	4.82
Other Areas	107	0.94	9.67	10.52	50.12	4.84
Midseason						
Indian River Dist.	11	1.14	9.62	8.60	50.14	4.81
Other Areas	43	1.09	9.52	8.91	51.30	4.89
Late						
Indian River Dist.	25	2.15	9.09	4.29	47.58	4.32
Other Areas	125	2.04	8.65	4.31	47.52	4.11
GRAPEFRUIT:						
White Seedless						
Indian River Dist.	35	1.47	9.69	6.63	37.22	3.60
Other Areas	14	1.36	9.33	6.90	40.11	3.75
Colored Seedless						
Indian River Dist.	38	1.39	9.75	7.05	37.59	3.66
Other Areas	8	1.32	9.29	7.07	40.37	3.76

Florida Citrus: Size frequency distributions
from October measurements

Type of fruit and size in 4/5-bushel containers	1997	1998	1999
--- Percent ---			
Early and midseason oranges: (excluding Navels)			
64 and larger	1.6	0.5	1.3
80	8.1	3.9	9.5
100	25.5	21.1	29.8
125	36.8	42.9	36.4
163 and smaller	28.0	31.6	23.0
Navel oranges:			
64 and larger	48.4	36.3	60.6
80	31.8	35.6	25.9
100	15.7	21.1	10.4
125	3.5	5.4	2.7
163 and smaller	0.6	1.6	0.4
White seedless grapefruit:			
32 and larger	12.7	5.7	7.2
36	13.9	11.7	12.7
40	17.2	18.0	16.6
48	20.3	20.9	17.2
56	13.2	14.6	13.9
63 and smaller	22.7	29.1	32.4
Colored seedless grapefruit:			
32 and larger	8.1	3.7	4.8
36	12.6	9.6	9.6
40	18.3	18.5	14.0
48	21.4	22.8	19.3
56	15.5	15.8	15.0
63 and smaller	24.1	29.6	37.3
Fallglo tangerines:			
150 and larger	98.2	90.9	81.2
176	1.8	5.2	9.7
210	--	3.9	2.3
246	--	--	5.1
294 and smaller	--	--	1.7
Robinson tangerines:			
150 and larger	51.3	64.6	84.8
176	18.2	17.2	10.6
210	20.1	10.1	3.8
246	7.1	5.1	0.8
294 and smaller	3.3	3.0	--
Sunburst tangerines:			
150 and larger	50.2	38.8	50.2
176	19.0	19.0	15.5
210	13.3	17.6	13.6
246	10.7	14.1	11.4
294 and smaller	6.8	10.5	9.3
Tangelos:			
80 and larger	17.8	6.2	15.7
100	28.2	17.3	27.1
120	31.4	36.1	29.1
156 and smaller	22.6	40.4	28.1

CHART 1: Early and midseason oranges (excluding Navels)
size frequency by diameter from October measurements.

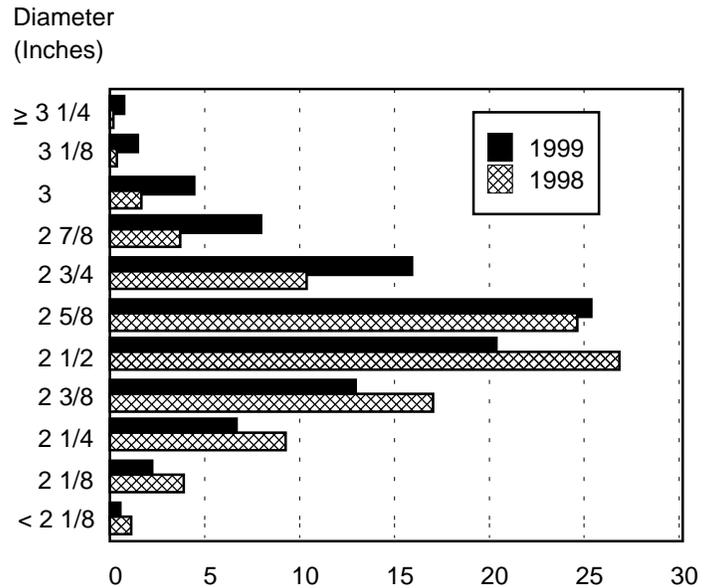


CHART 2: White seedless grapefruit size frequency
by diameter from October measurements.

